Skorpio™ X3 Four Slot Dock

NOTE

Read this manual carefully before performing any type of connection from the terminal to a host PC using the Four Slot Dock.
The user is responsible for any damages caused by incorrect use of the equipment or by inobservance of the indication supplied in this manual.

The Four Slot Dock paired with a Skorpio X3 mobile computer builds a reading system for the collection, decoding and transmission of barcode data.
The Four Slot Dock can charge both the terminals and the spare batteries at the same time. The spare batteries can be charged by inserting them into the slots at the back of the cradle.
The Four Slot Dock comes in two different models, the Charger (94A150032) and the Ethernet (94A150055).

The Ethernet model also provides Ethernet connection for data transfer via local area networks.

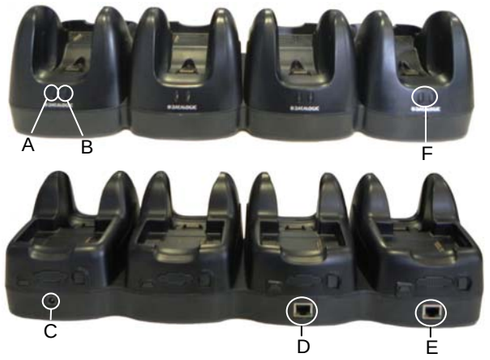

Figure 1 –Four Slot Dock

Key:

A) Link LED for Ethernet Port 1,2,3,4*
B) Battery charger LED for Slot 1,2,3,4
C) Power supply connector
D) Ethernet Port 1 (with integrated Link and Speed LEDs)**
E) Ethernet Port 2 (with integrated Link and Speed LEDs)**
F) Power on LED

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* Used in the Ethernet Four Slot Dock only
** Available in the Ethernet Four Slot Dock only

MOBILE COMPUTER INSERTION/ REMOVAL

For correct insertion into the cradle, insert the mobile computer from the top of the cradle and push it down until the clip of the cradle clicks

To remove the mobile computer from the cradle, simply pull it upwards while holding the cradle firmly down.

Figure 2 - Mobile Computer Insertion

Power Supply

Each 4SD requires a power supply to be connected to mobile computers. We recommend the power supply 94ACC1385.

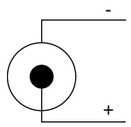


Figure 3 - Power Supply Polarity

LED INDICATORS

Power LED Status Indicator (F)

Color	Status
Green	Cradle powered

Battery Charging LED Status Indicators (B)

Color	Status
Off	Battery absent
Red	Battery charge in progress
Green	Charge completed
Red Blinking	Error

USING THE SPARE BATTERY CHARGER

Correctly insert the battery pack into the slot and simply press it into the slot until the battery latch is automatically closed; charging starts automatically.

Figure 4 - Spare Battery Insertion

To remove the battery, release the latch on the battery pack.

Figure 5 - Spare Battery Removal

ETHERNET CONNECTION*

The Ethernet cradle drivers are pre-installed on the Skorpio X3 and initiate automatically when the terminal is placed in a properly connected Four Slot Dock Ethernet.

When the mobile computer is inserted into the Four Slot Dock Ethernet, the connectivity icon on the taskbar indicates that the mobile computer is connected to a network.

NOTE

The maximum bandwidth capacity for each Mobile Computer is 12Mbps.

The yellow Link LED blinks to indicate activity, or stays lit to indicate that a link is established. When it is not lit it indicates that there is no link.

CAUTION

Connections should always be made with power OFF!

How to connect

Connect the Ethernet cradle (Ethernet port 1 - E) to an Ethernet hub or to a port on the host device. Connect the Ethernet cradle (power port - F) to the power supply.

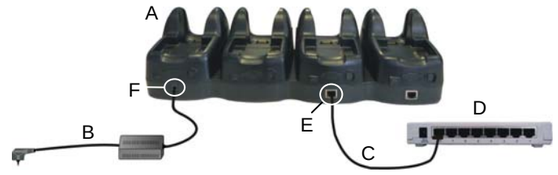


Figure 6 - Ethernet Connection

Key:

A) Ethernet 4 Slot Dock
B) Power supply without power cord, supplied with the 4SD and country specific power cord
C) UTP CAT 5E cable (recommended use)
D) Ethernet hub
E) Ethernet port 1
F) Power port

* Available in the Ethernet Four Slot Dock only

Daisychaining Ethernet Connection

To connect several cradles to an Ethernet network, the Ethernet cradles may be daisychained. It is recommended not to connect more than 4 cradles in order to maintain the optimal baud rate.

Connect the first Ethernet cradle to the Ethernet Switch. Connect the additional cradles as shown in Figure 7.

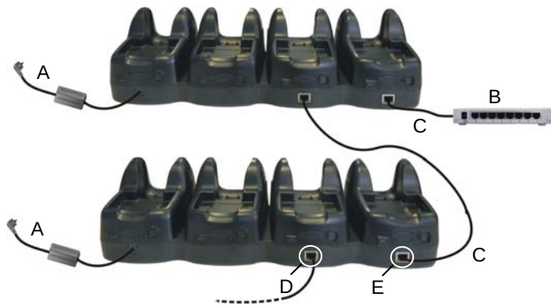


Figure 7 - Daisychaining Ethernet Connection

Key:

A) Power supply without power cord, supplied with the 4SD and country specific power cord
B) Ethernet hub
C) UTP CAT 5E cable (recommended use)
D) Ethernet Port 1
E) Ethernet Port 2

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

DOCK CONTACTS CLEANING PROCEDURE

All exterior metal contacts/connectors exposed to spills, dirt or debris accumulation require periodic cleaning to ensure best performance during charging and data transmission.

Use a soft, lint-free dry cloth or lens tissue to clean the product (contacts and plastics). An antistatic cloth is preferable but you can also use a cotton cloth. Avoid wool, synthetic cloths or other materials that can cause electrostatic discharges.

If the contacts are very dirty, clean them with a soft cloth moistened with a diluted non-aggressive cleaning solution or a diluted isopropyl alcohol solution (20% maximum). A cotton swab may be used only on hard-to-reach contacts.

Clean the contacts when you see traces of dirt or when you experience solid connection issues between the terminal and its dock (device not charging or intermittent communications). It is however suggested to clean the contacts every 6 months (more often if the environment is dusty).

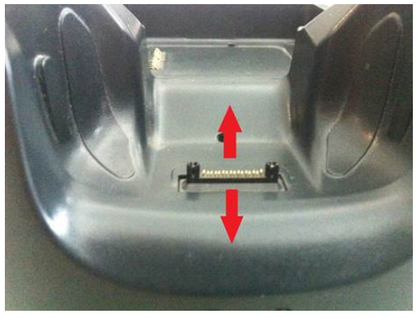
If the plastic areas are very dirty use only a cloth dampened with water.

CAUTION

Do not use abrasive or aggressive cleaning agents or abrasive pads to clean electric contacts, scan windows or plastics.

Cleaning the Dock Contacts

1. Remove the power cable before cleaning the contacts.
2. Use a soft dry cloth as suggested above. If the product is very dirty, moisten the cloth in a non-aggressive cleaning solution or diluted isopropyl alcohol solution (20% maximum).
3. Gently rub the cloth back and forth ONLY along the contacts, following the directions indicated by the red arrows. Use care not to leave any cloth residue.



4. Use a dry cloth to remove any dirt near the contacts area and to clean the plastic parts. If the plastic parts of the equipment are very dirty, slightly dampen the cloth with only water.
5. Repeat steps 2, 3 and 4 using a clean dry cloth.
6. Allow the cleaning solution to fully evaporate before powering up the product.

Cleaning the Dock Auxiliary Battery Contacts

1. Remove the power cable and the Ethernet module before cleaning the contacts.
2. Use a soft dry cloth as suggested above. If the product is very dirty, moisten the cloth in a non-aggressive cleaning solution or diluted isopropyl alcohol solution (20% maximum).
3. Gently rub the cloth back and forth ONLY along the contacts, following the directions indicated by the red arrows. Use care not to leave any cloth residue.

4. Use a dry cloth to remove any dirt near the contacts area and to clean the plastic parts. If the plastic parts of the equipment are very dirty, slightly dampen the cloth with only water.
5. Repeat steps 2, 3 and 4 using a clean dry cloth.
6. Allow the cleaning solution to fully evaporate before powering up the product.

TECHNICAL FEATURES

Electrical Features		
Power supply *		12 VDC ± 5% @ 5A
Consumption		Max 5 A
Spare slot charge time		
	Skorpio X3 Std Battery	4h 30
	Skorpio X3 High Cap Battery	6h 30 (with terminal inserted) 5h (when terminal is not inserted)
Communication Features		
Interface		Ethernet **
Baud Rate		10/100BASE-T
Physical Features		
Dimensions		445 x 135 x 105 mm 17.5 x 5,3 x 4.2 in
Weight (without connection cables)		1250 g / 44.1 oz
Indicators		Green power-on LED Bicolored battery charge status LED
Environmental Features		
Working temperature***		-10° to +50°C / 14° to 122°F ***
Storage temperature		-20° to +70°C / -4° to 158°F
Humidity		95% without condensation
Electrostatic discharge EN 61000-4-2		4 KV contact / 8 KV air

* Use only DL approved power adapters.
** Available in the Ethernet Four Slot Dock only
*** Skorpio X3 (including spare battery) should be charged at an ambient temperature between 0 - 35º C to achieve the maximum charging rate. Never charge the main device or spare batteries in a closed space (cabinet) where excessive heat can build up.

FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Modifications or changes to this equipment without the expressed written approval of Datalogic could void the authority to use the equipment.
This device complies with PART 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference which may cause undesired operation.

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